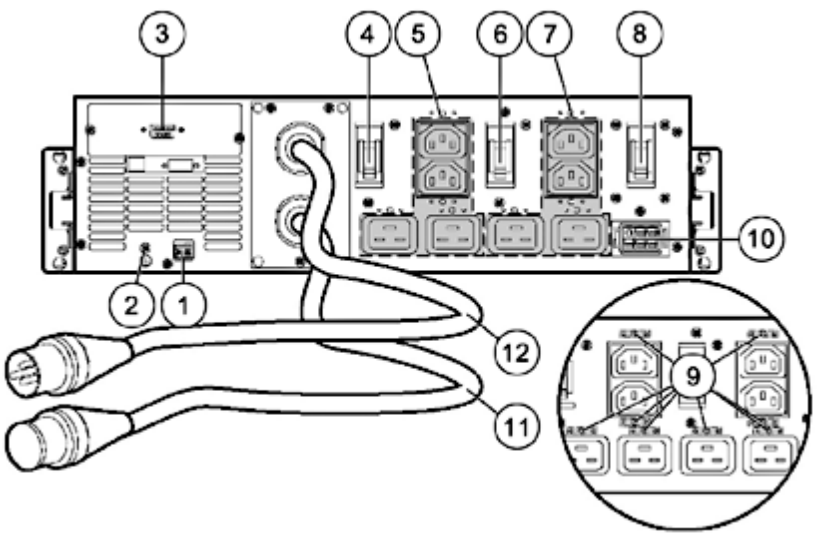
Overview

The leading edge HP UPS R5500 XR Uninterruptible Power System features a slim 3U rack-mount design, offering up to 4500 Watts of true power (5400 watts international). This new rack-space saving design allows more support for critical rack mountable equipment. This product compliments the existing R6000 UPS, and brings unprecedented power density and innovative features to the proven HP family of rack-mountable UPS products.
The new UPS R5500 XR is a high power density solution, designed for customers who want to provide power protection in space-constrained rack enterprise environments. In addition, this new UPS R5500 XR has the capability to be connected to an optional Extended Runtime Module (ERM). Customers can further increase the run-time on their UPS R5500 XR by using this ERM. The HP UPS "XR" models denote "eXtended Runtime" capable" UPS models.



1. REPO port
2. Ground bonding screw
3. Communications port/option slot
4. Load segment 1 circuit breaker
5. Load segment 1 (two IEC-320-C19 receptacles and two IEC-320-C13 receptacles)
6. Load segment 2 circuit breaker
7. Load segment 2 (two IEC-320-C19 receptacles and two IEC-320-C13 receptacles)
8. Battery circuit breaker
9. Cord retention clip attach. locations
10. ERM connector
11. PDU output NEMA L6-30 receptacle (NA/JPN) or 32 A IEC-309 receptacle (INTL) associated with load segment 1
12. Power cord with NEMA L6-30 plug (NA/JPN) or 32 A IEC-309 plug (INTL)

Models

HP UPS R5500 XR Uninterruptible Power System, High Voltage (US/JPN)	326529-D71
HP UPS R5500 XR Uninterruptible Power System, High Voltage (INTL)	326529-B31

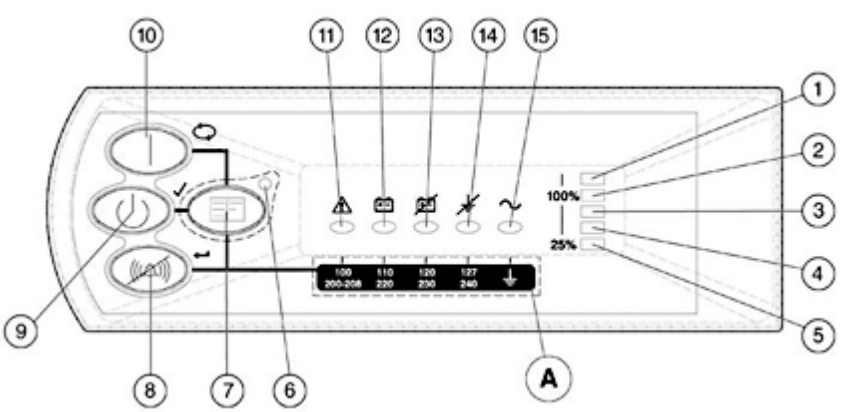
Overview

Key Features

- Increased power density with up to 5500VA / 4500 Watts of power packed in just 3U rack space (5400 watts international)
- Greater system uptime with support for Extended Runtime Modules (ERM)
- Easy configuration through enhanced front panel display
- Enterprise-wide intelligent manageability with bundled power management software
- Support for HP Option Cards that extend the power management capabilities of the UPS
- More efficient voltage regulation with revolutionary technology
- Ultimate long-term battery reliability with HP Enhanced Battery Management
- Enhanced system flexibility with two independently controlled load segments
- Support for Remote Emergency Power Off (REPO) circuitry
- Easy serviceability through modular design
- Hot-Swappable Battery and Electronics Modules
- Backed by a three year warranty with the first year including parts and labor. HP's Pre-Failure warranty, and a $25,000 load protection guarantee.
  (Certain restrictions and exclusions apply)

Product Highlights

3U Power Packed Design	Rated near unity at 5500VA / 4500W (5400W international), the HP UPS R5500 XR packs more power in space-conserving rack-mount design, allowing you to support more critical equipment in your rack.
Increase System Uptime with Extended Runtime Modules	The Extended Runtime Modules are rack mounted battery modules that occupy 3U (5.25 inches) of rack space. The HP UPS R5500 XR supports up to two Extended Runtime Module (ERM), which extend your overall battery runtime.
Lower Cost of Ownership with Innovative Technology	The HP UPS R5500 XR utilizes a new industry-leading technology that continually conditions and regulates power without using the battery, thereby increasing the life of the battery. The output voltage is automatically regulated, based on the connected load and the input voltage.
Investment Protection with HP Enhanced Battery Management	HP UPS R5500 XR incorporates Enhanced Battery Management: an exclusive, patented technology that doubles battery service life, optimizes battery recharge time, and provides advance notice of pending battery failure. With Enhanced Battery Management, you have a lower total cost of ownership and receive the best in the industry protection for your critical equipment.
Enhanced System Flexibility with HP Option Cards	The UPS R5500 XR models are equipped with a standard serial communications port via an internal slot. This option slot supports one option card, the Six Port Card and the SNMP / Serial Port Card. These option cards seamlessly integrate into the back of the R5500 XR and provide increased system flexibility.
Remotely Monitor UPSs on the Network	The SNMP / Serial Port Card features the ability to perform simultaneous network and out-of-band communications. It enables network administrators to remotely monitor UPSs and reboot network devices. It provides SNMP functionality, including power event alerts, network power diagnostics, and remote UPS reboot and testing. Used in conjunction with the provided Online power management software or SNMP capable Network Management Software, power-related problems on the network are quickly discovered and remedied.
Easy Configuration via Enhanced Front Panel Display	LED and switch membrane integrated into the front panel with four button controls (three buttons for UPS power control and one button under the front bezel for configuration)



Product Highlights

1. LED indicating Overload capacity
2. LED indicating 76% to 100% load capacity
3. LED indicating 51% to 75% load capacity
4. LED indicating 26% to 50% load capacity
5. LED indicating 0% to 25% load capacity
6. Configure mode on LED*
7. Configure Button*
8. TEST/ALARM RESET Button
9. STANDBY Button
10. ON Button
11. General Alarm
12. On Battery
13. Bad Battery/Low Battery
14. Site Wiring Fault Indicator
15. Utility LED
A. Voltage Configuration Panel*

*NOTE: Accessible only when the front bezel is removed

Intelligent Manageability	Free HP Power Management Software, an integrated component of HP Systems Insight Manager, the industry-leading hardware management platform, is included with the HP UPS R5500 XR models. The HP Power Management Software enables you to monitor and control HP UPSs locally or remotely. This software is a versatile, fully configurable, alert response tool that gives system administrators a full overview of the network's conditions. It enables you to monitor system status and power conditions, configure shut down timing, customize alert messages, and perform UPS diagnostic checks quickly and easily.
Independently Controllable Load Segments	With two load segments, you have the flexibility to configure scheduled startups and shutdowns, in addition to independently control the separate load segments. Working in conjunction with HP Power Management Software, the HP UPS R5500 XR can be configured to extend the runtime for more critical devices.
Ease of Maintenance with Hot-Swappable Batteries and Electronics Modules	The UPS R5500 XR is modular in design, and both the battery and the electronics modules are hot swappable. HP UPSs are designed with simple access through the front panel. Users can safely install new batteries and even the electronics module without ever powering down connected server and server options.
HP Quality	HP's hardware qualification is the toughest in the industry. Extensive evaluation, testing, product improvement, and an unsurpassed warranty guarantee the highest level of system protection, electrical performance, product quality and compatibility.
Compatibility	Compatible with all HP servers, storage, racks, rack options, and other rack mountable HP equipment (for PDU options please refer to the UPS/PDU compatibility matrix on http://www.HP.com/ups).
Warranty	The HP UPS R5500 XR is covered by a three year warranty, with the first year including parts and labor. Also, standard on all HP UPS units, is our exclusive Pre-Failure Warranty, which extends the advantage of a HP three-year, limited warranty by applying it to the battery before it actually fails. This warranty is offered worldwide. Specifically, the Pre-Failure Battery Warranty ensures that when customers receive notification from HP Power Management Software that the battery may fail, the battery is replaced free of charge under the warranty. NOTE: $25,000 Computer/Load Protection Guarantee is also provided in NA, in addition to the HP three year, limited warranty.

HP Care Pack Installation

Hardware Installation (Electronic) U4693E

HP Care Pack Services provide a range of life cycle support options that let you choose the service levels that meet your business requirements, from basis to mission-critical.
A full range of HP Care Pack hardware and software services are available including:

- Installation and start up
- Education courses
- Extended onsite hardware coverage hours from same business day 13 hours, 5 day to 24 hours, 7 days call window with options including 4-hour response or 6-hour Call to Repair
- Comprehensive range of software technical support for Microsoft, Linux, ProLiant essentials and VMware-based IT solutions helping to deliver high level of application availability. Response times range from 30 mins for critical problems to 2 hours.
- System Management, Performance Services and Mission Critical Support Solution

NOTE: For more information on HP Care Pack Services, contact any of our worldwide sales offices or resellers or visit our worldwide web site on the internet at: http://www.hp.com/hps/carepack
NOTE: For more complete information on HP Services offerings, customers and resellers, please visit us at: http://www/hp.com/hps
NOTE: Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html
NOTE: For additional information on Server Services, Rack and Power Options, please visit: http://h20219.www2.hp.com/services/cache/111072-0-0-225-121.html
NOTE: The information contained herein is subject to change without notice and is provided "as is" without warranty of any kind.
NOTE: The warranties for HP products and services are set forth in the express limited warranty statements accompanying such products and services.

Optional SNMP/Serial Port Card	Ideal for networked environments, this option card enables network administrators to remotely diagnose, monitor and reboot network devices via SNMP.
Optional Six Port Card	This option card lets you communicate (via standard DB-9 serial ports) with multiple servers. The maximum number of servers that can be connected using this card depends on the number of load segments available on the UPS. The R5500 XR has 2 load segments, so this card will allow you to serially communicate with up to 3 servers. And the R5500 XR has 2 load segments, so you can communicate with up to 2 servers using this card.
Extended Runtime Module (ERM), R5500 XR	The UPS R5500 XR supports up to two Extended Runtime Modules. Each module is 3U (5.25 inches), a rack mountable battery module that extends your overall battery runtime.

Related Options

Optional SNMP/Serial Port Card	192189-B21
Optional Six Port Card	192185-B21
Extended Runtime Module (ERM), R5500 XR	326564-B21

UPS R5500 XR Model Matrix

High Voltage Models

Part Number	Operating Voltage Settings	Power Out (VA/Watts)	Input Connection	Output Connection
326529-D71 (NA/JPN)	200/208*, 220, 230, 240	5000/4500	L6-30P, 3m cord	LS1: 15A CB -> 2 x C19 + 2 x C13 LS2: 15A CB -> 2 x C19 + 2 x C13 Plus one pigtailed receptacle (LS1) 1 x L6-30R for NA/JPN model
326529-B31 (International)	220, 230*, 240 if set at: 200/208	6000/5400 then: 5000/4500	IEC-309 32Amp, 3m cord	LS1: 15A CB -> 2 x C19 + 2 x C13 LS2: 15A CB -> 2 x C19 + 2 x C13 Plus one pigtailed receptacle (LS1) 1 x IEC-309 32Amp for Int'l model

* Factory default setting.

Kit Contents	HP UPS R5500 XR HP Power Management Software CD Power Products Documentation CD Depth adjustable fixed rack mounting rails, mounting brackets, cord retention clips Communications cable 4 PDU sticks (8 x C13 outlets each) Two 10 Amp IEC to IEC jumper cords
Unit Dimensions	5.13 x 17.53 x 26 in / 13.0 x 44.5 x 66.0 cm
Shipping Dimensions	14 x 32 x 38.5 in / 35.6 x 81.3 x 97.8cm
Unit Weight	160 lbs/73 kg
Shipping Weight	200 lbs/91 kg

Estimated Backup Times Chart (Minutes)

NA/JPN model
(5000 VA / 4500 Watt)

Load (Percent*)	With Standby Battery (Minutes)	With One Extended Runtime Module (Minutes)	With Two Extended Runtime Modules (Minutes)
20	59	169	303
50	19	61	106
80	9	31	60
100	7	24	46

*NOTE: Percent of 5000VA or 4500W of load
NOTE: Backup times are estimated for typical applications. Actual performance will depend on load and battery conditions.

Int'l model
(6000 VA / 5400 Watt)

Load (Percent*)	With Standby Battery (Minutes)	With One Extended Runtime Module (Minutes)	With Two Extended Runtime Modules (Minutes)
20	49	138	247
50	15	49	85
80	7	25	48
100	5	19	36

*NOTE: Percent of 6000VA or 5400W of load
NOTE: Backup times are estimated for typical applications. Actual performance will depend on load and battery conditions.

Technical Specifications

Electrical Input	Voltage Range	See Model Matrix for nominal and user selectable voltage settings
	Frequency	50/60 Hz
	Input Plug	Part number 326529-D71: L6-30P, 3m cord Part number 326529-B31: IEC-309 32Amp, 3m cord
	Online Efficiency	95%
	REPO	Remote Emergency Power-Off disables AC power to load
Electrical Output	Online Regulation	-10% to +6% of nominal voltage
	On battery Regulation	±5% of nominal voltage
	Voltage Wave Form	Sine wave
	Connections	See Model Selection Matrix; divided into 3 Load Segments
	Output Protection	Re-settable circuit protectors
Battery	Type	Maintenance-free, sealed, valve-regulated lead acid (VRLA)
	Extended Batteries	Up to two ERMs supported
	Backup Time	See Backup Times Chart
	Recharge Time	<3 hours to 80% usable capacity; <24 hours for complete recharge
Communications	Serial Ports	Standard DB-9 ports (ships with communication cable)
	Option Slot	One
	Option Cards	Six Port Card and SNMP / Serial Port Card
	LED Indicators	LED and switch membrane integrated into the front panel; with four-button control (three buttons for UPS power control and one button under the front bezel for configuration).
Environmental and Safety	Operating Temperature	50° to 104° F (10° to 40° C)
	Transit Temperature	-13° to 131° F (-25° to 55° C)
	Storage Temperature	32° to 77° F (0° to 25° C)
	Operating Humidity	20% to 80% (non-condensing)
	Storage Humidity	5% to 95%
	Operating Altitude	Up to 6,562 ft (2000 m) above sea level
	Transit Altitude	49,212 ft (15,000 m) above sea level
	Audible Noise	<46db (at 1m from surface of unit)
	Safety Markings	NA/JPN: UL, cUL Int'l: GS, CE, GOST
	Safety Certifications	UL1778, UL60950-1; CSA22.2 No.107.3, No.60-1950; EN50091-1-1; EN60950-1 IEC62040-1-1
	EMC Markings	NA/JPN: FCC, VCCI, ICES, CISPR Int'l: BSMI, C-Tick, CISPR
	Emissions	FCC CFR 47, Part 15 Class A, EN50091-2
	Immunity	IEC 801-2, IEC 801-3, IEC 801-4, IEC 801-5
	REPO Port	Meets NEC code 645-11 intent and UL requirements

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